

Cumulative Index of Papers Published in New Series of the Journal of the American Rocket Society

Volume 21: September, November 1951
Volume 22: January–February to November–December 1952

1951

CHENG, C. M.	
Resistance to thermal shock	147
CROCCO, L.	
Aspects of combustion stability in liquid propellant rocket motors. Part I: Fundamentals. Low frequency instability with monopropellants	163
EVANS, R. C., <i>see</i> Tsien, H. S., and Evans, R. C.	
FOA, J. V.	
Single flow jet engines—a generalized treatment	115
KRIEGER, F. J.	
Chemical kinetics and rocket nozzle design	179
MEGHREBLIAN, R. V.	
Approximate calculations of specific heats for polyatomic gases	127
NOLAND, R. L.	
Strengths of several steels for rocket chambers subjected to high rates of heating	154
SUMMERFIELD, M.	
A theory of unsteady combustion in liquid propellant rocket systems	108
TRENT, C. H., and ZUCROW, M. J.	
The hypergolic reaction of diecylopentadiene with white fuming nitric acid	129
TSIEN, H. S., and EVANS, R. C.	
Optimum thrust programming for a sounding rocket	99
ZUCROW, M. J., <i>see</i> Trent, C. H., and Zucrow, M. J.	

1952

ADAMSON, T. C., JR.	
On the theory of one-dimensional flame propagation	38
<i>See also</i> Tsien, H. S., Adamson, T. C., and Knuth, E. L.	
ALTMAN, D., <i>see</i> Seifert, H. S., and Altman, D.	
— and LORELL, J.	
Effect of local variations in mixture ratio on rocket performance	252
ALTSEIMER, J. H.	
Photographic techniques applied to combustion studies—two-dimensional transparent thrust chamber	86
BEIGHLEY, C. M., <i>see</i> Zucrow, M. J., and Beighley, C. M.	
BERMAN, K., and LOGAN, S. E.	
Combustion studies with a rocket motor having a full-length observation window	78
BIERLEIN, J. A., <i>see</i> Scheller, K., and Bierlein, J. A.	
CHARKY, J. V., and SUTHERLAND, G.	
The 1951 ARS annual convention: A technical summary	3
COPLEN, H. L.	
Large-scale production and handling of liquid hydrogen	309

Issue	Page Numbers
1951	
September	97–144
November	145–204
1952	
January–February	1–60
March–April	61–120
May–June	121–184
July–August	185–240
September–October	241–300
November–December	301–360

LORELL, J.	
Comment on "Heat flow in composite slabs" by E. Mayer	215
<i>See also</i> Altman, D., and Lorell, J.	
MAYER, E.	
Heat flow in composite slabs	150
Resistance to thermal shock	98
PRIEM, R. J., and HEIDMANN, M. F.	
Discussion on "Combustion studies with a rocket motor having a full-length observation window," by K. Berman and S. E. Logan	85
RANDALL, L. N.	
Rocket applications of the cavitating Venturi	28
SATTERFIELD, C. N., <i>see</i> Williams, G. C., Satterfield, C. N., and Isbin, H. S.	
SCHAEFER, H. J.	
Exposure hazard from cosmic radiation at extreme altitude and in free space	277
SCHELLER, K., and BIERLEIN, J. A.	
Isothermal combustion under flow conditions	245
SEIFERT, H. S.	
Effect of variable propellant density on rocket performance	213
— and ALTMAN, D.	
A comparison of adiabatic and isothermal expansion processes in rocket nozzles	159
SPITZER, L. JR.	
Interplanetary travel between satellite orbits	92
STEHLING, K. R.	
Injector spray and hydraulic factors in rocket motor analysis	132
SUTHERLAND, G., <i>see</i> Charyk, J. V., and Sutherland, G.	
SUTTON, G. P.	
Rocket propulsion progress: A literature survey	17
TSIEN, H. S.	
A method for comparing the performance of power plants for vertical flight	200
Servo-stabilization of combustion in rocket motors	256
The transfer functions of rocket nozzles	139
—, ADAMSON, T. C., and KNUTH, E. L.	
Automatic navigation of a long range rocket vehicle	192
— and CHENG, C. M.	
A similarity law for stressing rapidly heated thin-walled cylinders	144
WEATHERSTON, R. C.	
Thrust and drag	343
WILLIAMS, G. C., SATTERFIELD, C. N., and ISBIN, H. S.	
Calculation of adiabatic decomposition temperatures of aqueous hydrogen peroxide solutions	70
ZUCROW, M. J., and BEIGHLEY, C. M.	
Experimental performance of WFNA-JP-3 rocket motors at different combustion pressures	323
ZWICKY, F.	
Morphological features of the isothermal conversion of chemical energy into propulsive energy	339